

Listing of Claims:

Claims 1-46 (Canceled).

47. (Currently Amended) An imaging apparatus for a microscope, comprising:

an imaging element which picks up an image observed through the microscope; and

5 an operation display section;

wherein the operation display section comprises:

an operation section comprising an imaging start instructing member, a recording range enlargement instructing member, a recording range reduction instructing member, a display enlargement instructing member, and a display reduction
10 instructing member;

a recording section which includes a removable recording medium, and which is configured to temporarily record
~~records~~ the image picked up by the imaging element;

15 a display section configured to display the image temporarily recorded by the recording section at a display magnification, which is variable; and

a control section which controls recording and reproducing operations of the recording section and the display
20 magnification of the display section, and which selectively

controls a recording range of the image instructed by the
recording range enlargement instructing member and the recording
range reduction instructing member, and the display magnification
of the image instructed by the display enlargement instructing
25 member and the display reduction instructing member, wherein the
control section has a moving image imaging mode which
continuously repeats temporary recording by the recording section
and display by the display section, and a still image imaging
mode which records an image within the recording range among
30 images temporarily recorded by the recording section, and wherein
the control section controls the recording and reproducing
operations in a an operation mode selected from the group
consisting of:

a first operation mode in which the recording range of
35 the image in the still image imaging mode is fixed, and a display
range and the display magnification of the image in the moving
image mode are variable;

a second operation mode in which the recording range of
the image in the still image imaging mode is variable, and the
40 display range and the display magnification of the image in the
moving image mode are fixed; and

a third operation mode in which the recording range of
the image in the still image imaging mode is variable and the

display range and the display magnification of the image in the
45 moving image mode are variable.

48. (Previously Presented) The imaging apparatus for a
microscope according to claim 47, wherein the operation section
further comprises:

a recording range display instructing member which causes
5 the display section to display the recording range of the image;

a recording range instructing member which varies the
recording range of the image; and

an image list display instructing member which causes the
display section to display a list of images of predetermined
areas of the image recorded in the record section.